

Reports on Environmental Sciences, 5

**A first attempt of geographically-distributed Multi-scale integrated analysis of societal and ecosystem metabolism (MuSIASEM): Mapping Human Time and Energy Throughput in metropolitan Barcelona**

**(APPENDIX)**

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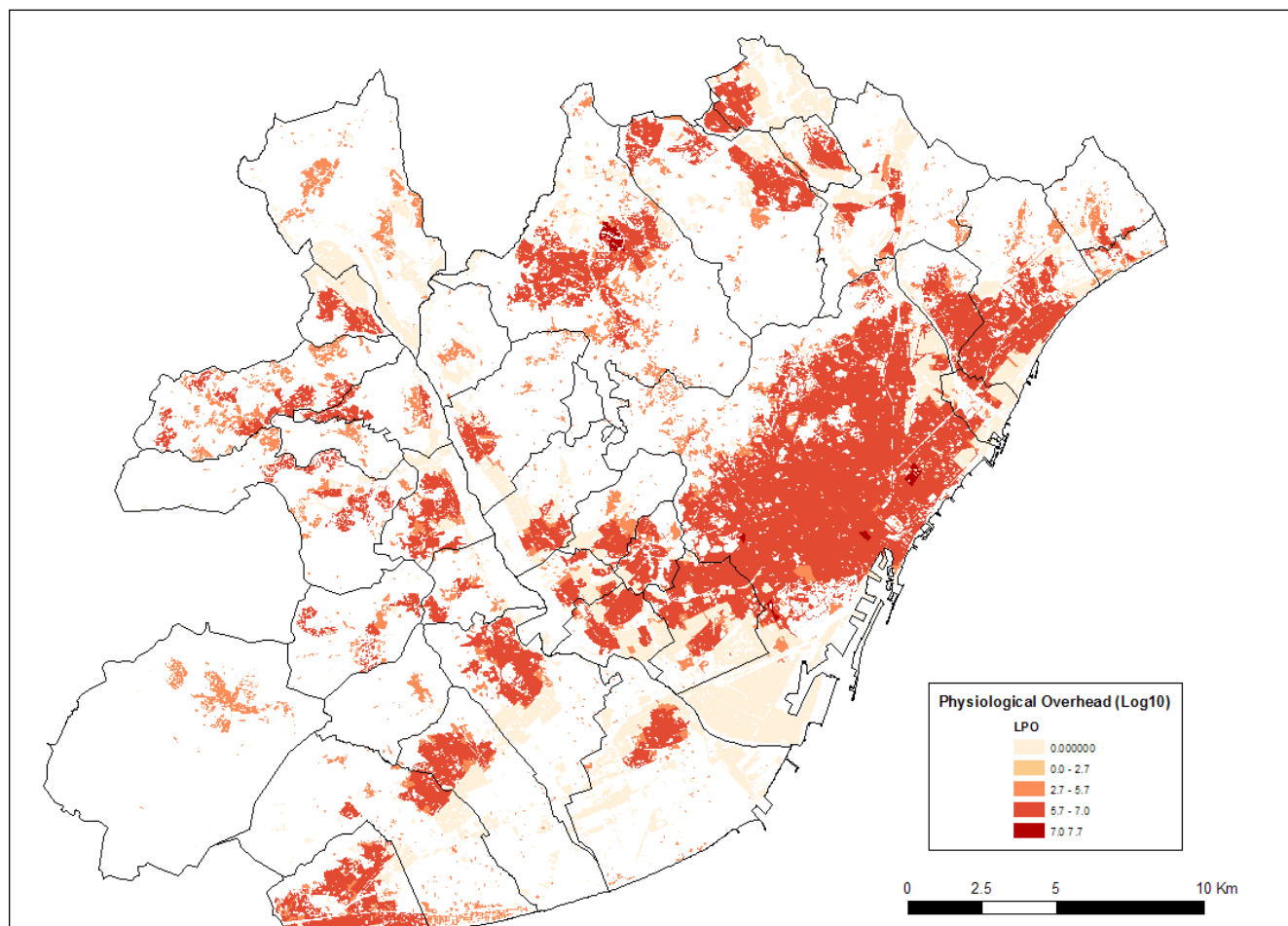
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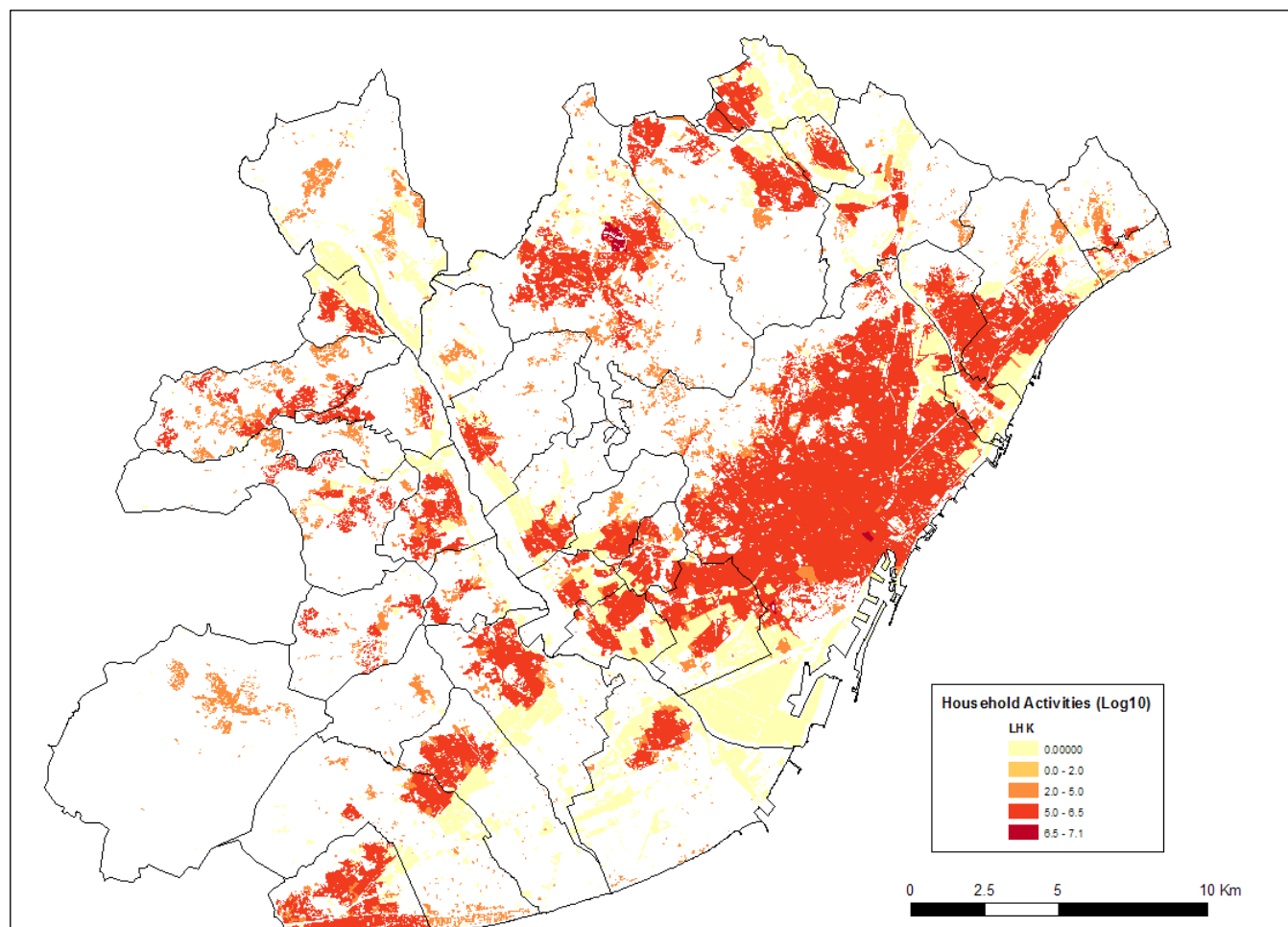
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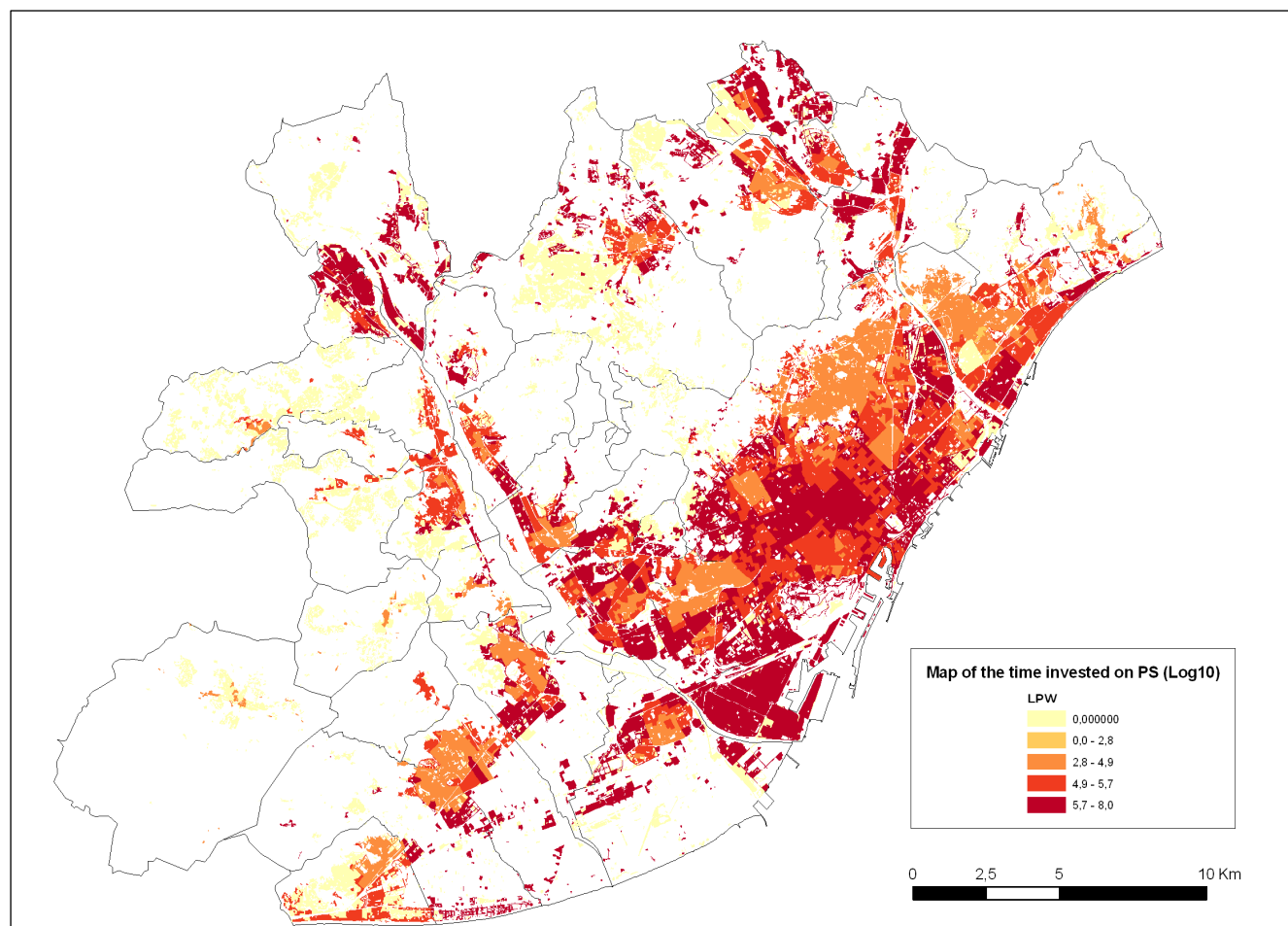
**Figure A1.** Map of human time devoted to physiological overhead





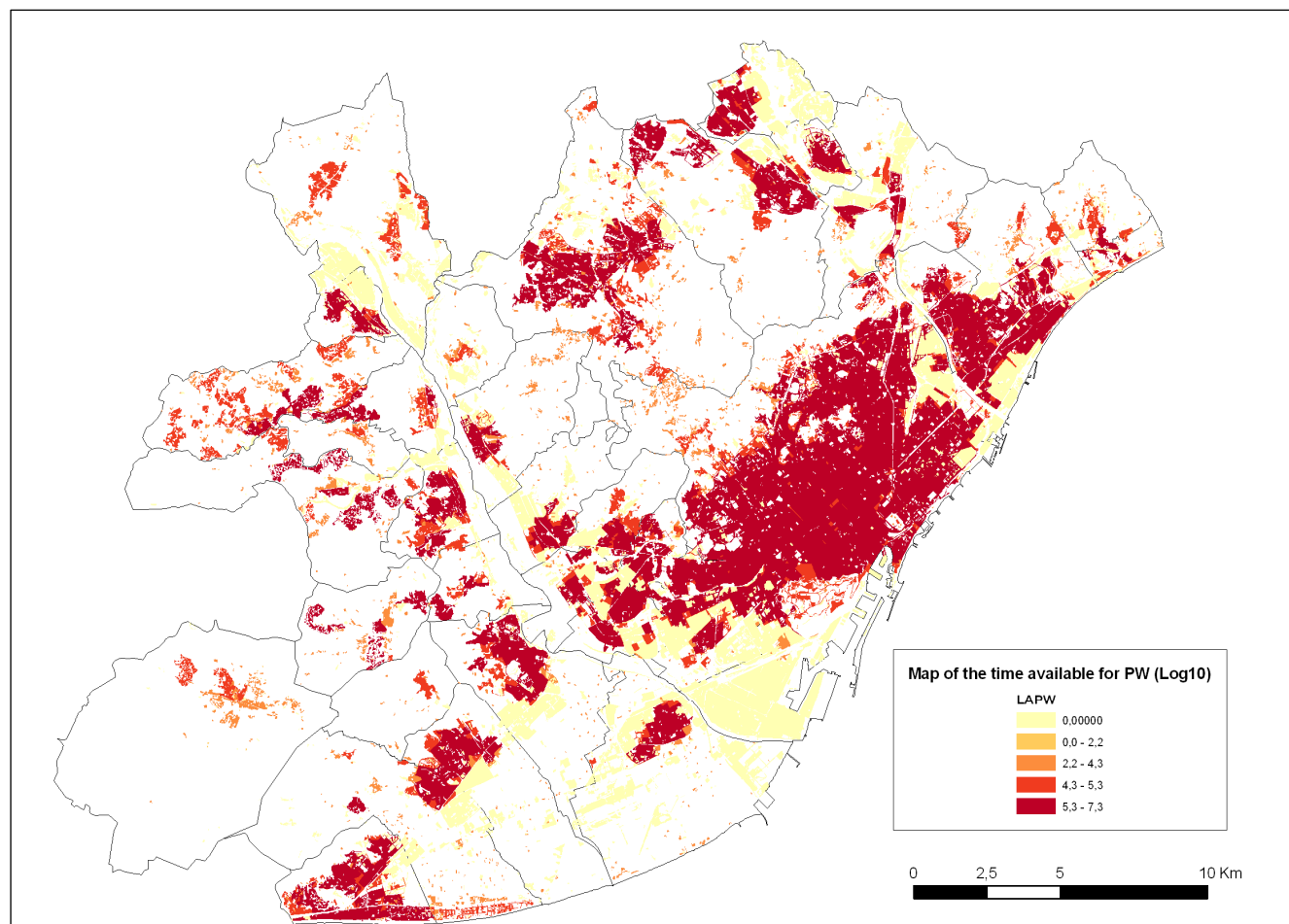
**Figure A2.** Map of human time devoted to household activities.





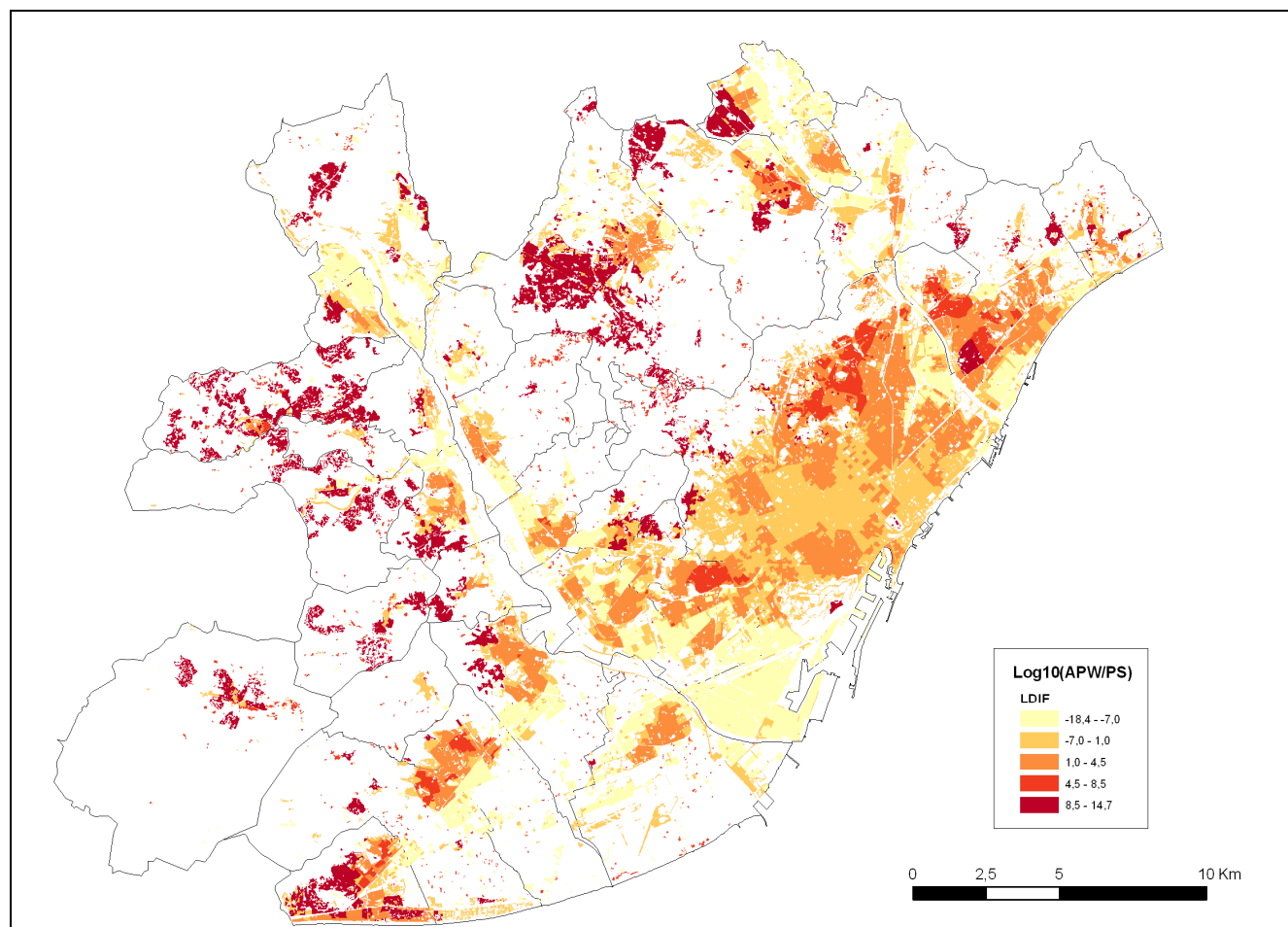
**Figure A3.** Map of the time invested on paid work in the productive sectors. Logarithmic scale.





**Figure A4.** Map of the time available for Paid Work. Logarithmic scale.

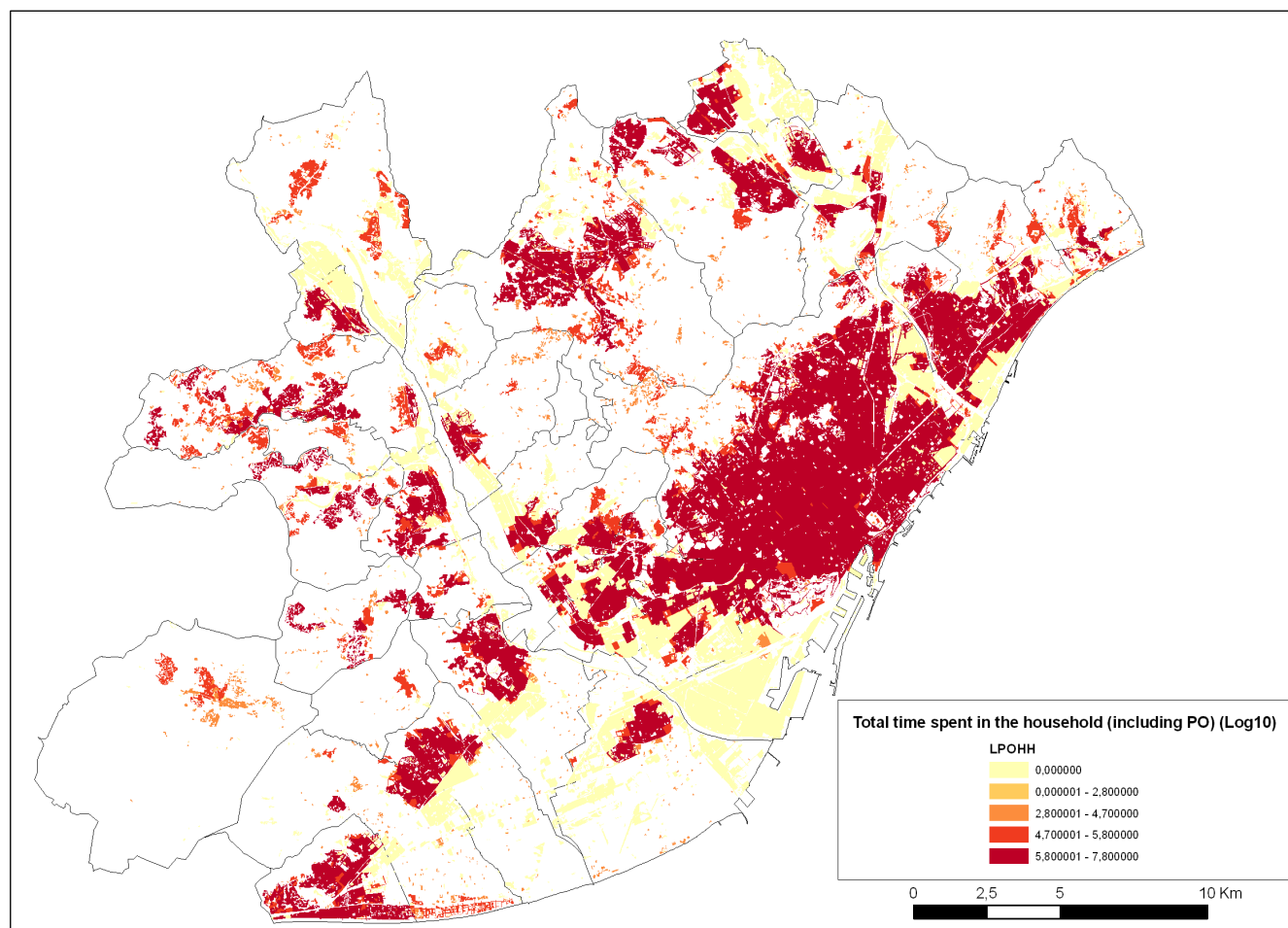




**Figure A5.** Map of the logarithm of the ratio between time available for paid work (APW) and time invested on paid work (PS).



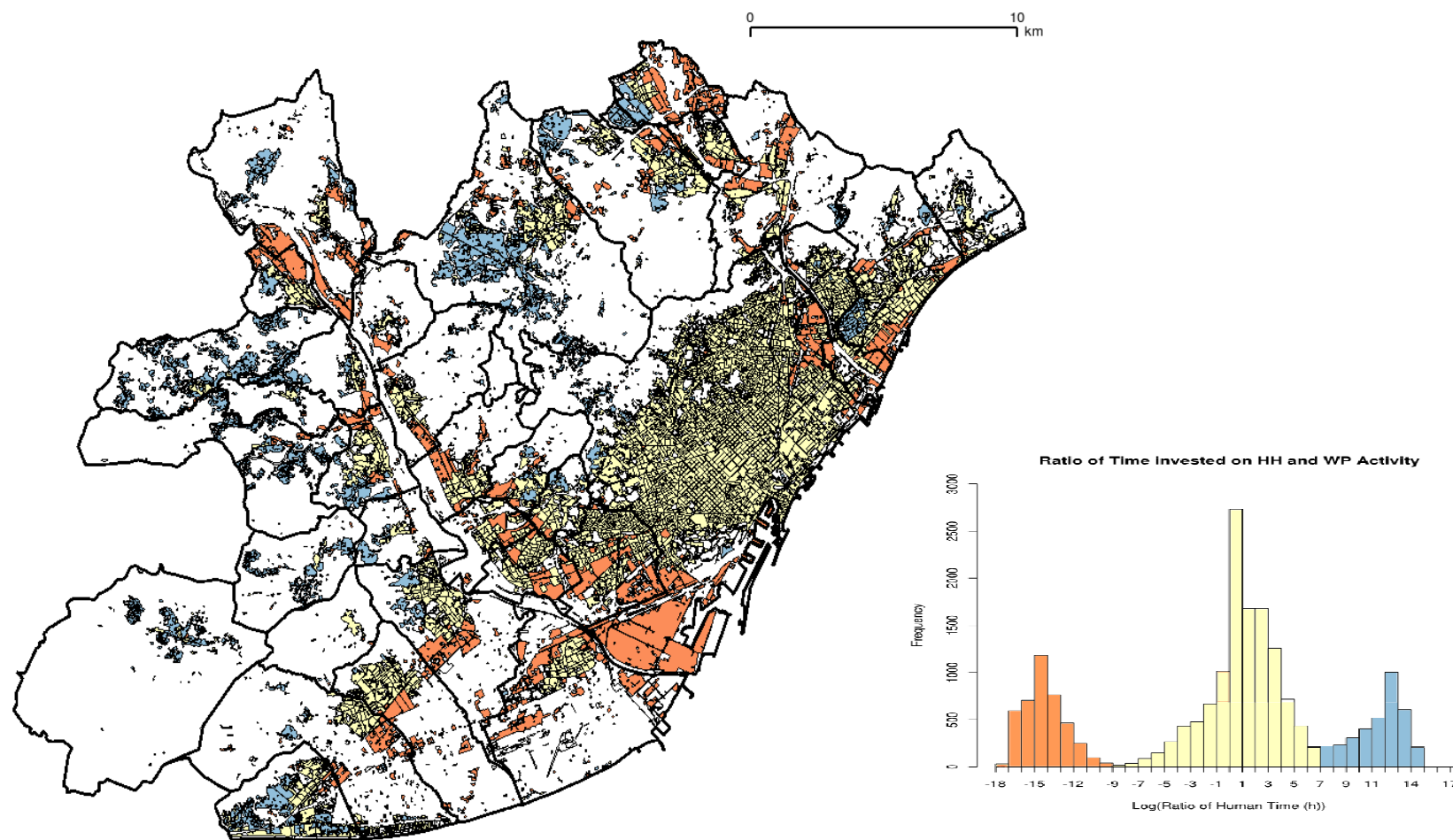




**Figure A6.** Map of Total time spent in the household (including PO). Logarithmic scale

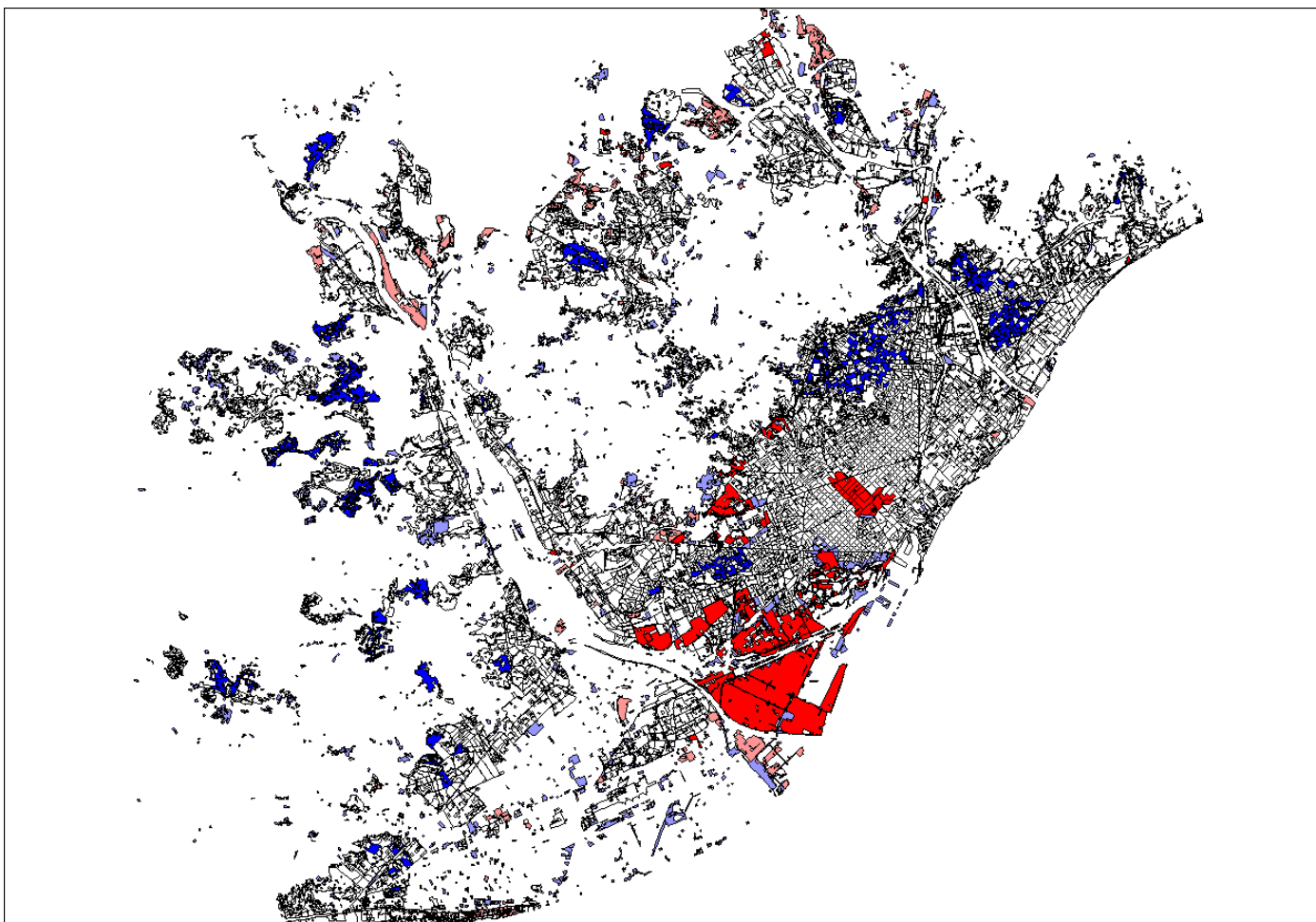






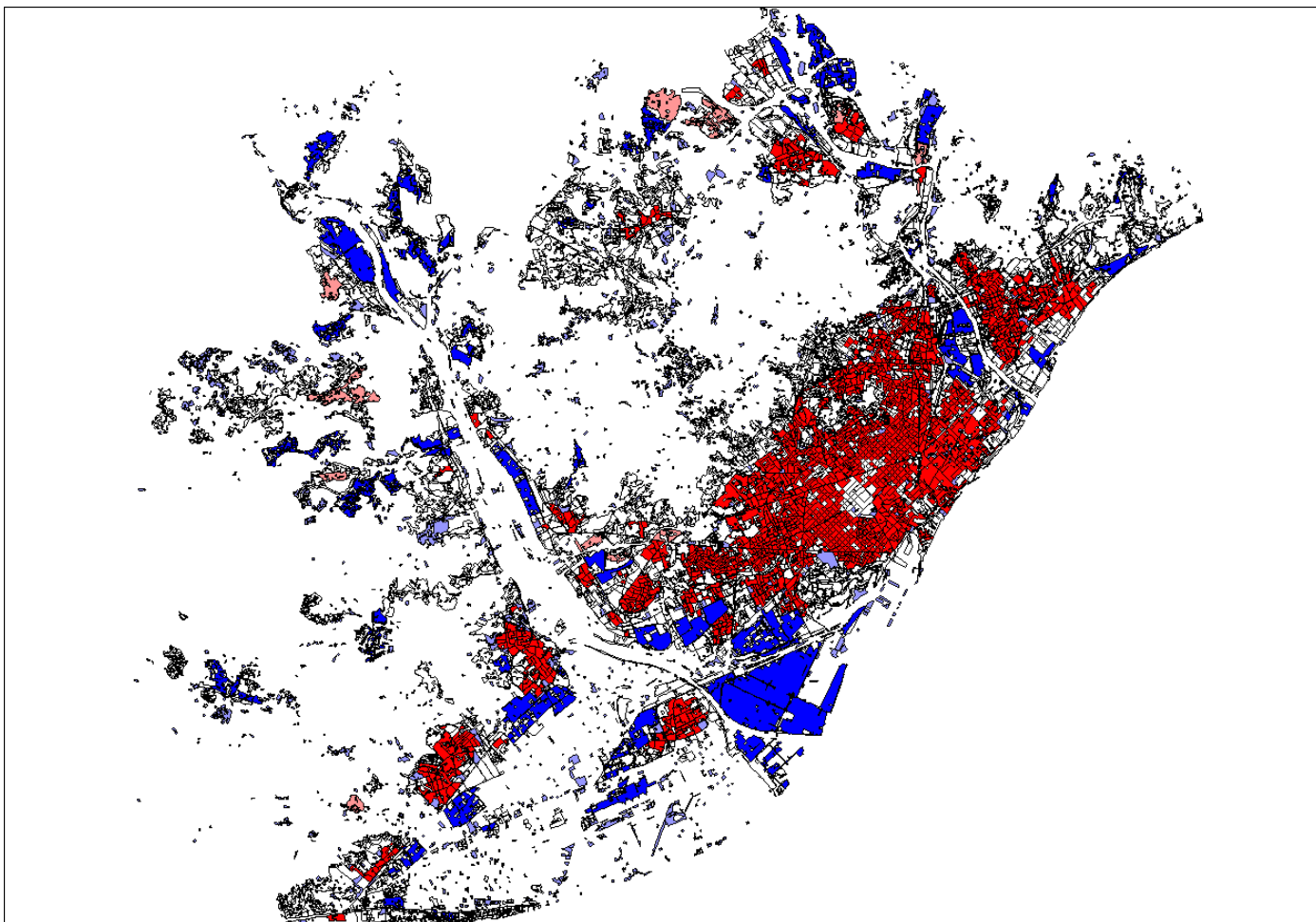
**Figure A7.** Map of the logarithm of the ratio of human time devoted to household activities and to paid work in the productive sectors. Colors identify the three distributions described by the histogram.





**Figure A8.** Clusters (LISA) of human time devoted to paid work in the productive sectors. Red, clusters of high values; blue, clusters of low values





**Figure A9.** Clusters (LISA) of human time devoted to household activity. Red, clusters of high values; blue, clusters of low values.



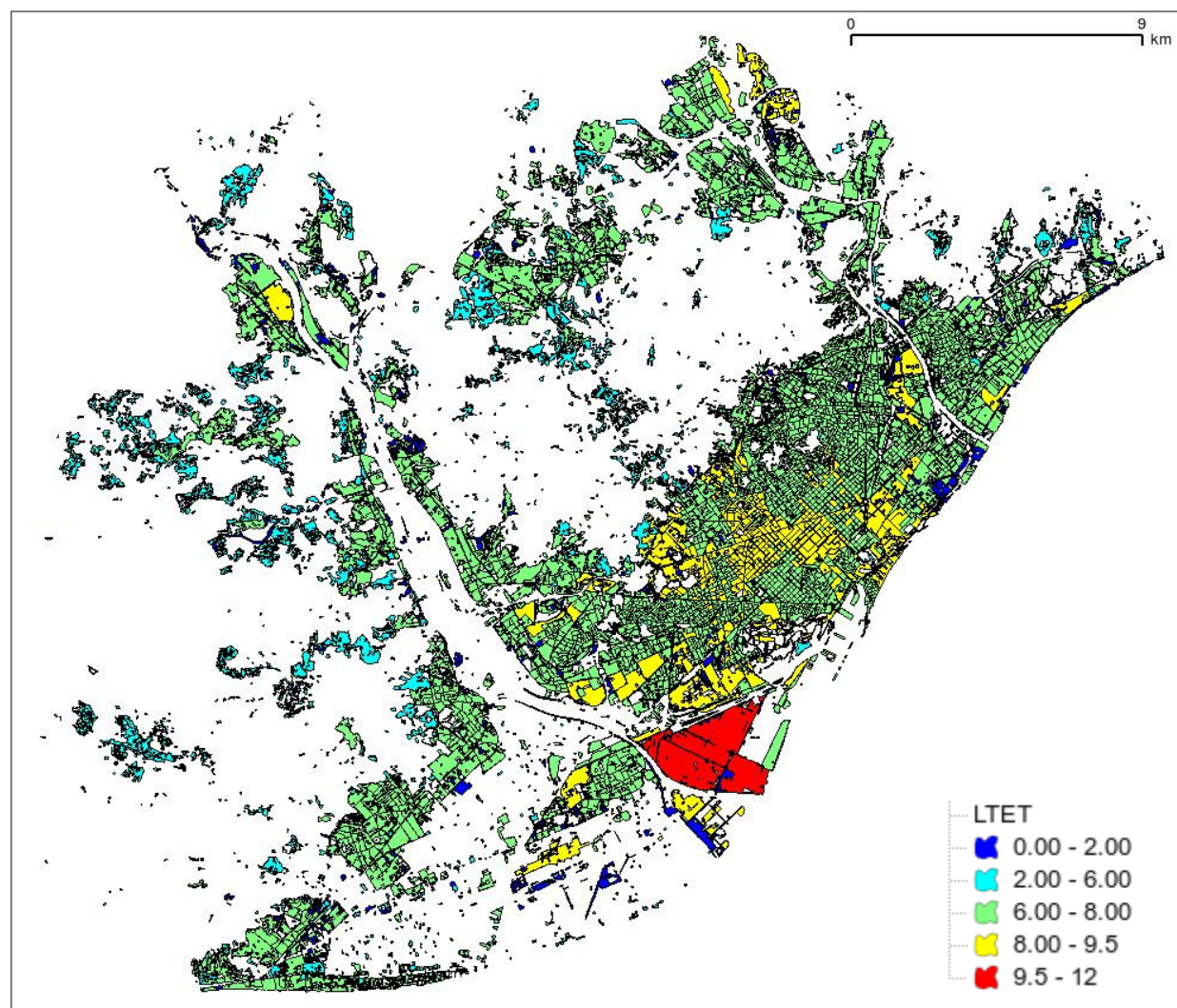


Figure A10. Map of Total Energy Throughput (Log10(MJ))





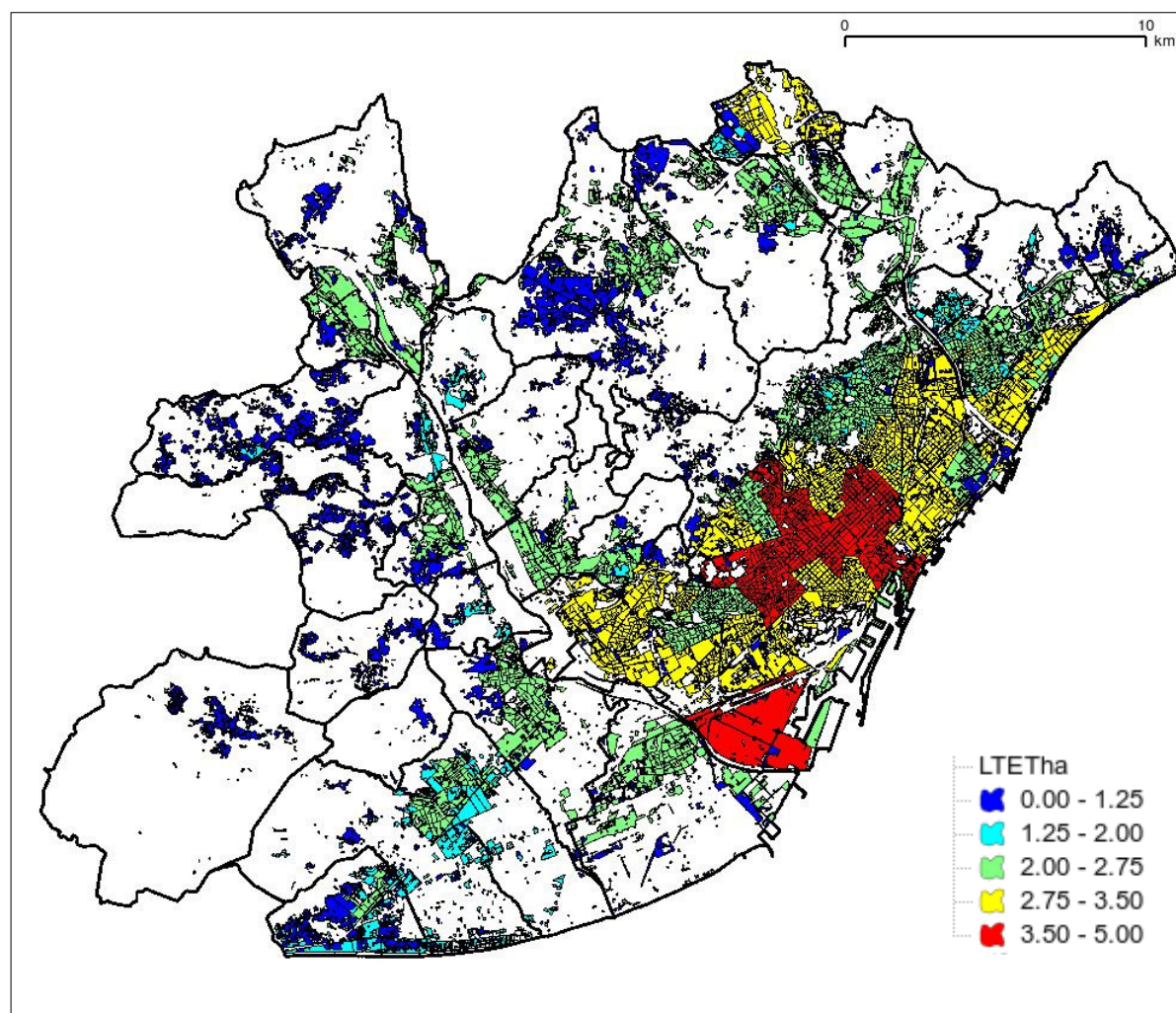
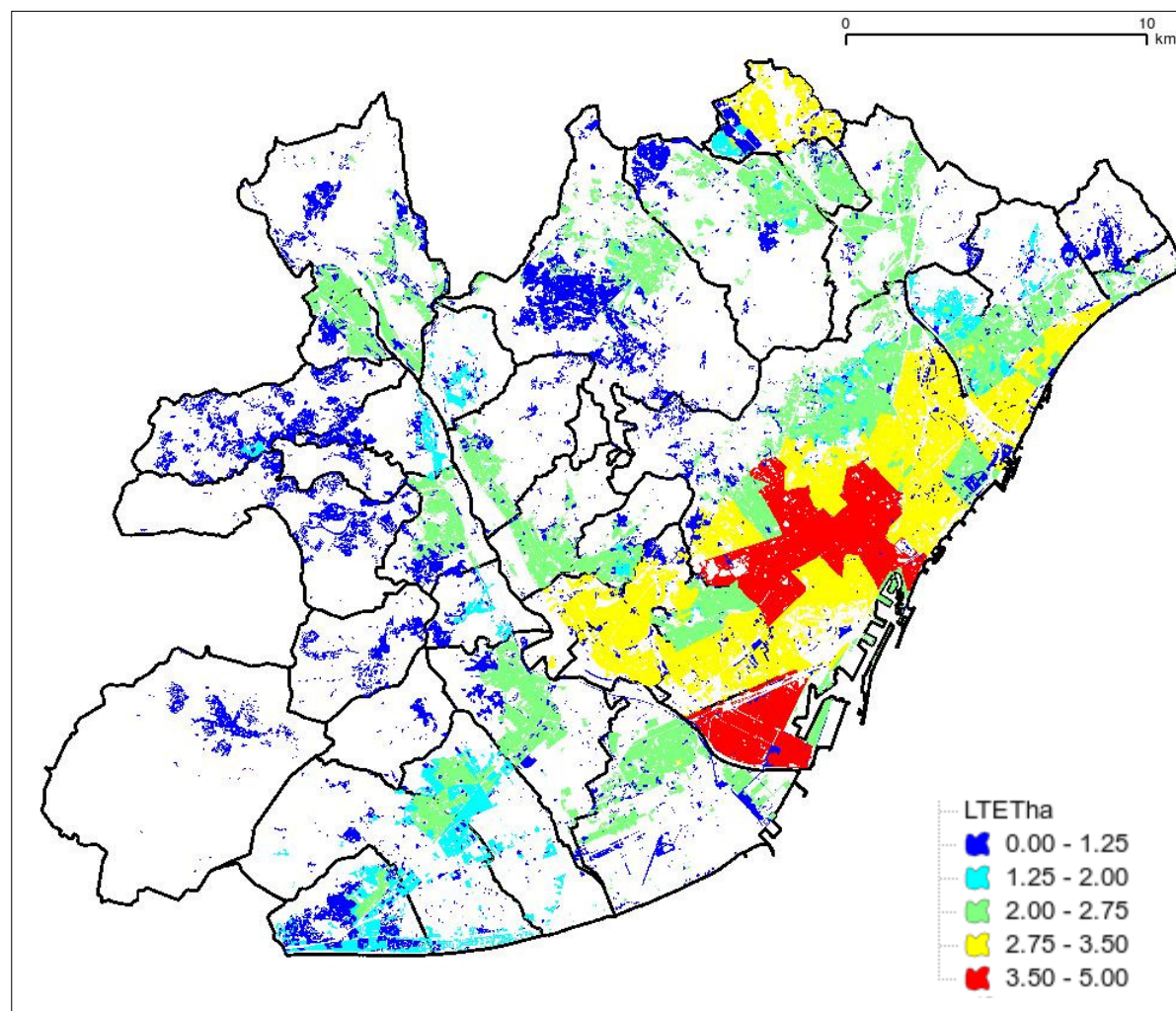


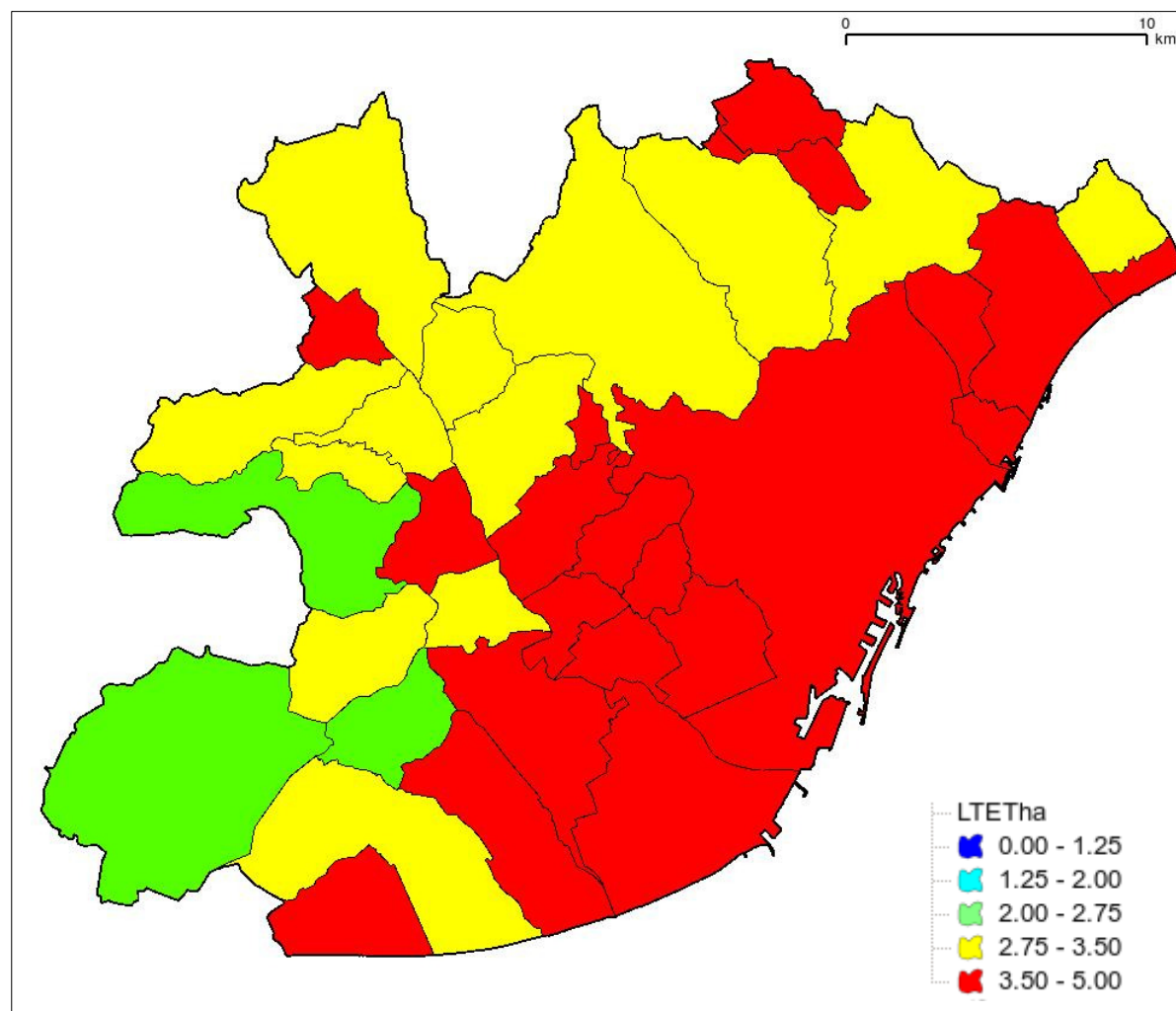
Figure A11. Map of Total Energy Throughput per ha (Log10(MJ/ha))





**Figure A11.** Map of Total Energy Throughput per ha ( $\text{Log}_{10}(\text{MJ/ha})$ )





**Figure A12.** Map of Total Energy Throughput per ha ( $\text{Log}_{10}(\text{MJ/ha})$ ). Conventional estimate by municipality and using average TET per habitant.

